

## AG15A1-H

## Technical Data Sheet

### Description/产品说明

AG15A1-H is an ABS designed for injection molding.

注塑用 ABS

### Features/特性

- High impact strength/高抗冲
- High gloss/高光泽

### Applications/应用

- Home appliances/家电
- Toys/玩具

### Properties/性能

Item/项目	Test Method 测试方法	Test Condition 测试条件	Unit 单位	Typical Value 典型值 <sup>[1]</sup>
<b>Physical Properties/物理性能</b>				
Density/密度	ASTM D-792	23 °C	g/cm <sup>3</sup>	1.04
Molding Shrinkage/模塑收缩率	ASTM D-955	料流方向	%	0.4~0.7
Melt Flow Index/熔融流动指数	ASTM D-1238	220 °C , 10 kg	g/10min	22.0
<b>Mechanical Properties/机械性能</b>				
Tensile Strength/抗张强度	ASTM D-638	50mm/min	kg/cm <sup>2</sup>	450
	ISO 527	50mm/min	MPa	43
Elongation at Break/ 断裂伸长率	ASTM D-638	50mm/min	%	30
	ISO 527	50mm/min	%	20
Flexural Strength/弯曲强度	ASTM D-790	15mm/min	kg/cm <sup>2</sup>	830
	ISO 178	2mm/min	MPa	73
Flexural Modulus/弯曲模量	ASTM D-790	15mm/min	kg/cm <sup>2</sup>	26,000
	ISO 178	2mm/min	MPa	2,300
Izod (notched)/ 悬臂梁缺口冲击强度	ASTM D-256	1/4" , 23 °C	kg·cm/cm	25
		1/8" , 23 °C	kg·cm/cm	24
	ISO 180	4mm , 23 °C	kJ/m <sup>2</sup>	22
Rockwell Hardness/洛氏硬度	ASTM D-785	23 °C , R-scale	/	110
<b>Thermal Properties/热性能</b>				
HDT/热变形温度	ASTM D-648	1.82MPa , 1/4" , 不退火	°C	86
VICAT/维卡软化点	ASTM D-1525	50N , 50 °C/h , 不退火	°C	93

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Flame Characteristics/燃烧性能				
Flame Rating/耐燃等级	UL-94	水平燃烧	/	1.5mm HB (E162823)

## Processing Guide (Injection Molding)/加工指南 (注塑成型) <sup>[2]</sup>

Processing Parameters/工艺参数	Unit/单位	Value/值	
Drying Temperature/干燥温度	°C	75~80	
Drying Time/干燥时间	h	2~4	
Maximum Moisture Content/最大含水量	%	0.05	
Melt Temperature/熔融温度	°C	190~230	
Cylinder Temperature/ 料筒温度	Rear/后部	°C	190~220
	Middle/中部	°C	200~230
	Front/前部	°C	210~240
Nozzle Temperature/射嘴温度	°C	190~230	
Mold Temperature/模具温度	°C	60~80	
Back Pressure/油缸背压	kg/cm <sup>2</sup>	5~10	

### NOTES/备注：

<sup>[1]</sup>Data in this form shows sample figures measured under certain specific conditions, these are typical properties only and are not to be constructed as specifications.

表中数据乃依照特定条件测量之样本值, 这些数据为产品典型值, 并非规格值/保证值/技术指标。

<sup>[2]</sup>The above process parameters are only for injection/extrusion reference use, according to different equipment and/or product requirement, the above process should be adjusted appropriately.

以上加工参数仅供注塑/挤出参考, 应当根据不同机型、模具以及产品要求, 对工艺做适当调整。

<sup>[3]</sup>Please note that the content of this data sheet may be altered from time to time according to improvement of the products without prior notice.

本数据表的内容可能会根据产品的改进而不时修订, 恕不另行通知。

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